

NEWSLINE

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Seymour Sack honored with Fermi Award

WASHINGTON, DC – Secretary of Energy Spencer Abraham announced that Seymour Sack of B Division was one of three winners of the Enrico Fermi Award. Sack will receive the award for his contributions to national security.

Each winner will receive a gold medal and a citation signed by the President and Secretary of Energy. Sack's citation will read: "For his contributions to the national security of the United States in his work assuring the reliability of nuclear weapons and thus deterring war between the superpowers." He also will receive an \$187,500 honorarium.

Laboratory Director Michael Anastasio said: "I am thrilled that Seymour Sack has been honored with the DOE Fermi award. He is an outstanding



JACQUELINE MCBRIDE/NEWSLINE

Seymour Sack of DNT will receive the Enrico Fermi Award later this month "for his contributions to the national security of the United States."

and unique applied scientist whose influence is imprinted on all aspects of the modern U.S. nuclear stockpile and on the overall weapons program. His high technical standards, innovative approaches,

See **SACK**, page 7

UC President Robert Dynes prepared for challenges facing campuses and labs

By Don Johnston

NEWSLINE STAFF WRITER

Addressing the prospect that the contract to manage the national labs would be competitively bid, University of California President Robert Dynes said: "We're proceeding as rapidly as we can to prepare for it."

Dynes addressed the issue in a wide-ranging interview with internal media from UC campuses and labs last Friday, his second day in office.

"I've conveyed to the DOE that there are two issues I'm worried about in going forward with competition," Dynes said. "The first is that the request for proposals is consistent with university missions. If they are then I'm enthusiastic about going forward; the second is money. We've been working vigorously on that."

The previous week, Dynes said he met with Linton Brooks, administrator for the National Nuclear Security Administration (NNSA), to discuss the issue of competing the contract. "He very much wants the university to be in the competition, as do I," Dynes said. "I'm proceeding as if we're in competition and assuming we'll find ways through these difficulties."

See **DYNES**, page 7

DNT's Hatchett named APS Fellow for fusion work

Steve Hatchett of the Defense and Nuclear Technologies Directorate's AX Division will be named a fellow of the American Physical Society at this month's meeting in Albuquerque.

Hatchett has a 20-year history of major contributions to inertial fusion. Recently, Hatchett has become very well known throughout the international Inertial Confinement Fusion community for innovative implosion designs for fast ignition. These "cone focus" designs solve a critical issue — getting the fast ignition beam to the compressed fuel. In the three years since Hatchett completed initial calculations, indirect drive experiments on Omega and direct drive experi-

See **HATCHETT**, page 7

Atomic Testing Museum opens doors on Cold War past

By Anne M. Stark

NEWSLINE STAFF WRITER

LAS VEGAS — Upon entering the Atomic Testing Museum, visitors will travel back to 1950, when President Harry Truman designated the Nevada Test Site as America's continental nuclear testing grounds.

Members of the Nevada Test Site Historical Foundation and employees and retirees of the Livermore and Los Alamos laboratories celebrated the museum's grand opening last weekend by officially dedicating the first floor of the Frank H. Rogers Science and Technology Building in Las Vegas as the Atomic Testing Museum.

Though the museum won't be completely assembled until fall 2004, museum officials have quite a vision for the site. Once assembled, the museum will play host to myriad historically relevant test site artifacts.

See **MUSEUM**, page 8



DAVID C. STARK/SPECIAL TO NEWSLINE

The Frank H. Rogers Science and Technology Building in Las Vegas houses the Atomic Testing Museum, which tells the history of the Nevada Test Site.



An impressive cluster

— Page 4



Seeing strength in diversity

— Page 5



When fire strikes

— Insert



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Tuesday
14

The Work/Life Programs Office is offering a brown bag session on "Elder Care Options and Resources" at noon today in Bldg. 571, room 1301. The workshop will help employees learn about community resources, the advantages and disadvantages of each type of eldercare source; and identification of which resources meet specific needs of older people. For more information or to pre-register, contact Carol Sandoli, 2-9543 or sandoli1@llnl.gov.

Wednesday
15

Today's session of the **Macintosh Technical Seminar Series** will feature a presentation about software RAID systems. SoftRAID, LLC, will be presenting its new Mac OS X version of SoftRAID 3 which now supports all disk technologies (FireWire, ATA, SCSI, USB and Fibre Channel). SoftRAID 3 includes advanced features such as automatic mirror rebuilds, multiple drive mirrors, volume optimization, I/O error logging, and using SoftRAID for backup/archives. The presentation will end with an open discussion where SoftRAID will solicit LLNL's input on the future direction of their product. For further information, contact Duane Straub, 2-9774, or mailto:straub1@llnl.gov.

Friday
17

Applications for **Women's Association Scholarship** are due today. The program provides financial support to LLNL employees in their pursuit of education as a means of career and personal advancement. These scholarships are designed for employees who have completed academic work within the last two semesters and are planning to continue their academic career in the fall. To receive a scholarship application, contact Scholarship Program chairperson Joni Schuld (L-1, schuld2@llnl.gov or call 2-4168). See the Scholarship Program Website: <http://www-r.llnl.gov/llwa/scholarship.html>

UP
&
COMING

A special presentations to mark Disabilities Awareness Week will feature **Paul Singleton** of the Department of Defense's Computer/Electronic Accommodations Program (CAP) will discuss how the DoD has tried to make the federal government the model for employing people with disabilities since the 1990s in a presentation at 11 a.m. Tuesday, Oct. 21, in the Discovery Center Auditorium, Trailer 6525. Discover ways LLNL can become an employer of choice for people with disabilities.

...

The Employee and Organization Development Department has openings in the following course: **WRITE ON! A Clear-Cut Approach to Effective Written Communication** (ED7346): Write On! Is a hands-on writing course. This class will be held Oct.16-17, at the Training Center (Trailer 1879), 8:30 a.m. - 4:30 p.m. Estimated cost of course is \$280-450, For additional information, contact EODD Training at 2-4842 or sign up on the Web at Ltrain. https://www-ais.llnl.gov/llnl_only/docs/hr/ltrain.



JACQUELINE MCBRIDE/NEWSLINE

Erector set

A giant crane erects the walls of Bldg. 142 in late September.

Once completed, Bldg. 142 will serve as a permanent structure to replace older trailers in the adjoining area. The NNSA Facility and Infrastructure Recapitalization Program (FIRP) is enabling the Laboratory to improve the quality of aging facilities, demolish legacies and build new structures.

The Lab worked with Panattoni Construction of Sacramento.

RETIREES' CORNER

Retirement requires advance planning

Dick Hatfield (Engineering, 1993) treats retirement as a career change, which needs advance planning and offers new challenges. First, time takes on a new meaning with no deadlines or schedule and offers a freedom that has both pluses and minuses. One can be stimulated by the opportunities or depressed by the sudden availability of time. In his case, being involved with people and adding to his hobbies have occupied his time since retiring from weapons engineering and resource management. On the people side, he received his amateur radio license and assists with communication at many public service events. He joined the Symphony Board, served as secretary and now as vice president. He is past chair of the LLNL Retirees Association and has helped to find speakers for the luncheons. As a tinkerer for many years, he recently took up metal machining, adding to his precision target shooting, photography, travel (one major trip per year), fiddling with the computer, and enjoying a good "read." Life is full of surprises, and retirement is no exception. Loss of his spouse two years into retirement messed up a great deal of the advance planning. But that is part of life, and, if one has a bit of optimism, it can be treated as a challenge.

Dale Davis (DNT, N Program, June 2003), and **Vern Davis** (Procurement, 2000), have moved to Cypress, Texas, just outside of Houston, a short hop to Austin, Dallas, and San Antonio. Galveston, 50 miles to the south, is a wonderful place to tour — a lot of 1850s homes, a WWII submarine exhibit and an airplane exhibit

at the Galveston Airport. Also, the battleship Texas is docked in Houston Harbor, near the San Jacinto State Park battlefield memorial.

They recently had an addition to their family — a new granddaughter born on Aug. 19, the second little girl for their family. Her name is Grace, the same as the tropical storm that just passed through their area (weather is much different in Texas). Dale recently attended her 40th high school reunion in Tulsa, Okla. and they will travel to Washington, D.C. next month for Vern's 45th reunion (verndale@sbcglobal.net).

Tom Lincicome (Electronics 1991), and wife, **Joan** (Telecommunications 1990), recently took a trip to Italy to visit their son Michael. They enjoyed early morning hot air balloon flights with Michael, who works for Bombard Balloons. They also attended the famous Palio horse race in Sienna where the town square is covered with dirt and ten horses are ridden bare back around the square three times. The horse that completes the race is the winner, with or without the jockey.

They returned home, packed the RV and headed to Folsom where they were present for the birth of their first grandson, Parker David Lincicome. He arrived several days early on Aug. 27.

Please send any news or input to Jane or Gus Olson at AugustO@aol.com or JaneRubert@aol.com or phone (925) 443-4349 or snail mail to: 493 Joyce Street, Livermore, CA 94550

IN MEMORIAM

Walt Woodard

Walt Woodard, a Livermore resident, died Tuesday, Sept. 23. He was 44.

Woodard, a Tracy native, lived most of his life in Livermore. He worked as an electrician at the Laboratory for 25 years.

He is survived by his wife, Harriet Woodard of Potter Valley; his daughter, Jessica Woodard of Berkeley; his mother Margaret Gassman of Livermore; his brother, Bill Woodard of Ridgecrest; his sister, Lori Wood of Modesto; his grandmothers, Dolores Bates and Anna Woodard of Tracy; and numerous aunts, uncles and cousins.

A remembrance celebration was held Saturday, Oct. 4, at the Livermore Elks Lodge, 940 Larkspur, Livermore, Calif.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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NEWS OF NOTE



Food Bank brings home food for the hungry

By Alane Alchorn

IBIS

"In a society as rich as ours, no one should go hungry. As a community, we can see to it that hunger is eradicated. The Food Bank of Contra Costa and Solano currently provides about seven million pounds of food each year, helping more than 70,000 people monthly. We can do more if the community assists us." The message from Larry Sly, executive director of the Food Bank is direct, straightforward and compelling.

He wants to feed everyone who is hungry in Contra Costa or Solano, and he wants to do it today. Not tomorrow. Not some day. Today.

Toward this end, the Food Bank solicits donations of food, purchases staple foods when supplies lag demand, and distributes emergency and supplemental food to people in need and to local Food Bank-member nonprofit agencies.

The Lab's HOME (Helping Other More Effectively) Campaign, now gearing up for its 29th year, can help fill the Food Bank's shopping carts. Even a few dollars can make a big difference when almost seven million pounds of food is headed toward the hungry.

For example, the Food Bank distributes enough groceries to make 5.5 million meals annually, at an



FRANK NUÑEZ/IBIS

Larry Sly, right, executive director of the Food Bank of Contra Costa and Solano counties, escorts HOME Campaign committee members through the organization's Concord warehouse.

average cost of 51 cents per meal. Equally impressive, Sly reports that 94 cents of every dollar buys and distributes food; only about 6 cents goes for administration and fundraising.

To help the Food Bank deliver groceries where they will do the most good, donors can select month-

ly payroll deductions or contribute a one-time amount.

Only about 16 percent of the Food Bank's funding comes from government sources. The remaining 84 percent arrives through service clubs, foundation grants and private donors, including HOME contributors.

Laboratory employees, contractors, and retirees are invited to support their favorite national causes or community agencies such as the Food Bank. The goal for this year's campaign is \$1.5 million, a modest increase over last year's achievement of slightly more than \$1.4 million.

HOME Campaign 2003 packets will be distributed to LLNL and Johnson Control employees throughout the week of the Run and Fair. Volunteer organization team leaders (OTLs) and representatives (Reps) in each directorate are leading this labwide effort, which is sponsored this year by the Laboratory Services Directorate.

Expect a visit from your HOME Rep by November 7. Your Rep and OTL can answer specific questions

regarding the campaign. Thank you for giving them your time and attention when they contact you. For detailed information regarding the HOME Campaign, visit www-r.llnl.gov/home2003 and browse to find full information on the campaign.

Employees reminded to complete annual Security Refresher Briefing

All LLNL employees and contractors are reminded to complete their annual Security Refresher Briefing in a timely manner. The briefing is available on the Safeguards & Security Program Website at <http://www-r.llnl.gov/securityprogram/index.html>, or type in the short cut: security. Your annual security briefing is due exactly one year from the date you took it the previous year.

People who are exempt from this requirement are visitors; off-site contractors without clearances; contractors whose clearances are held at other

DOE facilities; and DOE employees. In addition, any employee who has taken the Initial Security Briefing (part of the New Employee Orientation) or the Comprehensive Briefing will take the Security Refresher Briefing one year from the date they last completed one of the two briefings. (Example: You took the Comprehensive Briefing on Aug. 20 of this year, you will not have to complete the Security Refresher Briefing until Aug. 20, 2004.)

If you've taken both the Initial Security Briefing and the Comprehensive Briefing within the past year,

your Security Refresher Briefing will be due one year from the date you took the Comprehensive Briefing.

To take the quiz on the LLNL internal web testing system, you will need to enter your Institutional ID and password. If you do not have an Institutional ID and password, you can get them at https://www-ais.llnl.gov/llnl_only/docs/menu/

Questions regarding the Security Refresher Briefing requirements should be directed to the LLNL Security Education Section, 3-8284, or 3-3300.

Disabilities expert engineers learning program



Ronald Davis

"After taking an IQ test at age 17, I went from being called a mental retard to a genius," declared author and learning disabilities expert Ronald Davis. As part of the Work/Life Programs Office, Davis spoke to a Lab audience this week about "Understanding Learning Differences: ADHD, Dyscalculia, Dyslexia and Dysgraphia."

Davis, who is dyslexic and has a form of autism, is founder of the Reading Research Council - Davis Dyslexia Correction Center and Davis Dyslexia Association International. "I am the chief researcher and the chief guinea pig", he joked.

Davis' extraordinary life included being labeled mentally retarded as a child. "I have no memories of my life until I was nine years old," he said. "The school really didn't know what to do with me, so I sat in a corner." And it wasn't until, the age of 12, that he actually began speaking with the aid of a speech therapist. Through Davis' school years, he still did not know how to read or write, even though he was found brilliant after taking an IQ test at age 17. He was later diagnosed with dyslexia at age 20.

When referring to the time in his life when he was unable to read or write, Davis confided, "I vowed that no one would ever discover my secret." He hid his secret by working a lot and achieving success in his numerous professions, which included researcher, engineer, businessman and artist.

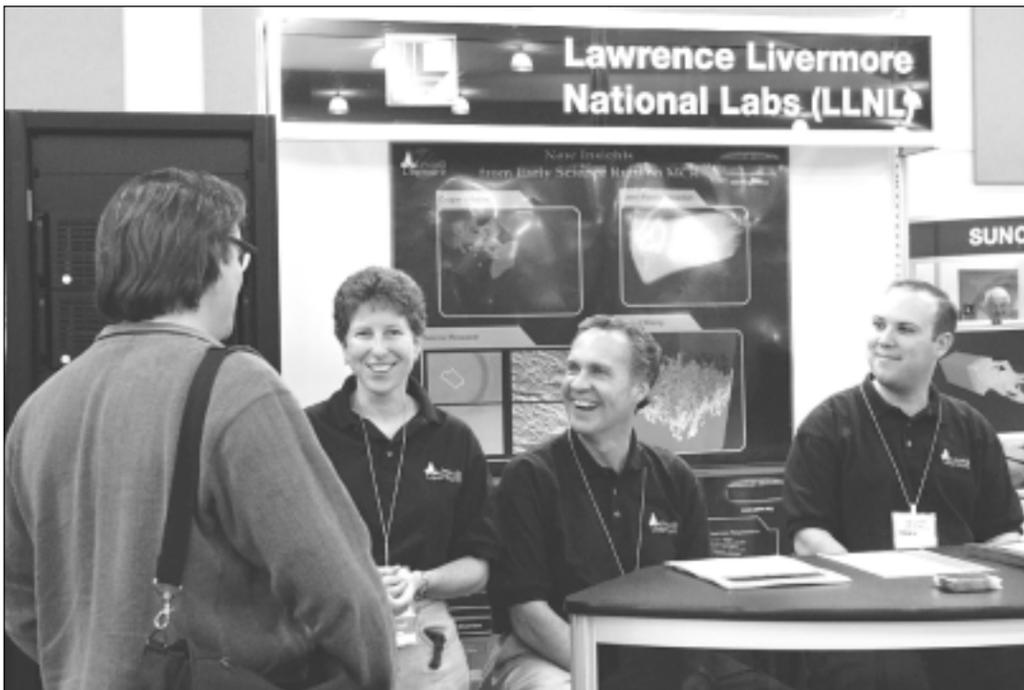
It wasn't until the 1980s, after struggling for 38 years, that Davis discovered some ways to correct his own dyslexia. This experimentation led his engineering persona to figure out a reliable system for helping others to overcome their own dyslexia. These approaches have been found effective in correcting not only dyslexia, but in helping numerous other perception and learning problems as well.

Today these methods are offered worldwide by more than 300 licensed facilitators. In addition to offering workshops, international consulting and public speaking engagements on TV and radio, Davis has also published numerous books, the latest which is entitled, "The Gift of Learning: Proven New Methods for Correcting ADD, Math and Handwriting Problems."



NEWS YOU CAN USE

An impressive cluster



BOB HIRSCHFELD/NEWSLINE

The Lab's Multiprogrammatic Cluster (MCR) was showcased recently at the Intel Developer Forum in San Jose. Pictured on the exhibit floor are Robin Goldstone, Richard Hedges, and Christopher Morrone. During a keynote address featuring Intel's involvement in high performance computing, MCR was lauded for its impressive capabilities, and its standing as the No. 3 fastest supercomputer in the world.

SETI director speaks about radio search for extraterrestrials

Kent Cullers, director of R&D for the Search for Extraterrestrial Intelligence (SETI), will discuss the radio search for signs of extraterrestrials in a presentation at 1:15 p.m. Tuesday, Oct. 21, in the Bldg. 123 auditorium.

Blind since birth, Cullers earned his Ph.D from UC Berkeley in 1980, becoming the first totally blind physicist in the world. The film *Contact*, featuring a character based on Cullers, will air on Lab TV channel 4 at 8 a.m. and noon Tuesday, Oct. 14 and Thursday, Oct. 16. The presentations are sponsored by the Work/Life Programs Office.

Technical Meeting Calendar

Friday
10

INSTITUTE FOR GEOPHYSICS & PLANETARY SCIENCE

"Diversity in Cosmic Explosions," by Dale A. Frail,

National Radio Astronomy Observatory. Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Josie Morgado, 3-4188.

Monday
13

BIOSECURITY & NANOSCIENCES LABORATORY

"DNA Analysis in Nanofluidic Channels," by Jonas O. Tegenfeldt, Lund University,

Sweden. 2 p.m., Bldg. 151, room 1209 (Stevenson Room). Cookies and coffee will be served. Contact: Jim De Yoreo, 3-4240, or Katie Thomas, 2-7903.

CHEMISTRY & MATERIALS SCIENCE

"Nanoparticles in Chemistry, Materials, and Biology," by Vincent Rotello, University of Massachusetts. 8:30 a.m., Bldg. 155 auditorium. Coffee and cookies will be served. Foreign nationals may attend if approved security plan is on file which includes Bldg. 155. Contact: Dave Eaglesham, 2-0486, eaglesham2@llnl.gov, or Julie Sedillo, 3-3506, sedillo3@llnl.gov.

Tuesday
14

H DIVISION

"Microdiffraction Analysis of Hierarchical Dislocation Organization," by Rosa Barabash, Oak Ridge National Laboratory. 10:30 a.m.,

Bldg. 219, room 163 (badge required). Contact: James Belak, 2-6061, or Darlene Klein, 4-2868.

Wednesday
15

ENERGY & ENVIRONMENT

"Fooling Around with Mother Nature or The Arrogance of Duplicating Hypersonic Flight on the Ground," by Marc Costantino, Earth Science Division. 1:30 - 3p.m., Bldg. 543 auditorium (refreshments will be served).

Contact: Camille Vandermeer, 3-2672.

INTEGRATED COMPUTING & COMMUNICATIONS

Macintosh Technical Seminar Series

This session of the series will feature a presentation about software RAID systems. SoftRAID, LLC will present its new Mac OS X version of SoftRAID 3, which now supports all disk technologies (FireWire, ATA, SCSI, USB and Fibre Channel). SoftRAID 3 includes advanced features such as automatic mirror rebuilds, multiple drive Mirrors, Volume optimization, I/O error logging, and using SoftRAID for backup/archives. The presentation will end with an open discussion where SoftRAID will solicit LLNL's input on the future direction of their product. 10:30 a.m., Bldg. 543 auditorium. For further information, contact Duane Straub, 2-9774, or email straub1@llnl.gov.

CENTER FOR COMPUTATIONAL ENGINEERING (CCE), AND NEW TECHNOLOGIES ENGINEERING DIVISION (NTED)

"Trends in Thermal Research: A National Science Foundation Perspective," by Richard Smith, National Science Foundation. 9:30 a.m., Bldg 235, Gold Room (1090). Contact Debbie Leal, leal1@llnl.gov, to obtain the abstract.

Thursday
16

ELECTRONICS ENGINEERING TECHNOLOGIES DIVISION

"Signed Roots and Conditional Inference," by Russell L. Zaretzki. 10 a.m., Bldg. 1677, room 1085.

Contact: Cathy Kenton, 4-3875.

INTEGRATED COMPUTING & COMMUNICATIONS

Totalview users meeting. Presentation by John DeSignore, Etnus, LLC. 10 a.m., Bldg. 451, White Room (uncleared area). Coffee will be served at 9:30 a.m. Contact: Karen Warren, 2-9022

Friday
17

INSTITUTE FOR GEOPHYSICS & PLANETARY SCIENCE

"Ultraluminous Infrared Galaxies: Quasars / Ellipticals in Formation," by Sylvain

Veilleux, Cal Tech. Noon, Bldg. 319, room 205 (all attendees must be badged). Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

Tuesday
21

CHEMISTRY & MATERIALS SCIENCE, FRONTIERS IN CHEMISTRY AND MATERIALS SCIENCE

"Recent and Future Advances in the Manipulation of Single Molecules and its Applications to Biophysics," by Carlos Bustamante, Department of Physics, Department of Chemistry, Molecular & Cell Biology, Howard Hughes Medical Institute, UC Berkeley. 3:30 p.m., Bldg. 155 auditorium. Contact: Mike Fluss, 3-6665, or Kristine Ramirez, 3-4681.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov.

NEWS OF NOTE



New saplings soon to replace site's hazardous trees

By Michael Ryan

PLANT ENGINEERING

About 370 of the approximately 14,000 trees that are now being maintained annually at the Laboratory have been identified for removal due to potential hazards to facilities, pedestrian and vehicular traffic. These trees are susceptible to dropping limbs, diseases, or noticeable leaning planted in urban areas of the Lab. The species planned for removal are Eucalyptus, Pine, Elm, and Poplar.

The good news is approximately 370 new saplings will be planted in various locations around the Lab as part of Plant Engineering's "Tree Replacement Program." The replacement program is managed by space and site planning in conjunction with Plant Engineering's Landscape Shop. An attempt will be made to plant these trees in the

same general area where the other trees were removed. The new saplings will be roughly 4 to 8 feet tall and placed where they will not pose a risk to Lab personnel and facilities. There is also a provision that allows programs to provide additional funding to support the planting of larger trees.

Plant Engineering's Landscape Shop and Space and Site Planning have evaluated all of the trees planned for removal. The Lab's wildlife biologist will assure that no active nesting sites are disturbed within these trees. The trees removed will be recycled and re-used on-site as wood chips for weed control and aesthetic enhancements.

The history of the trees being replaced is that many are not native to Northern California. As an example, the mature Eucalyptus trees at the Lab are about 50 years old. These trees have grown rapidly and they are performing a phenomenon called "self-pruning." This is a process where the

trees begin to shed their limbs regardless of regular pruning.

A UC study shows that the majority of the Eucalyptus trees self-prune from 4 a.m. – 4 p.m. on calm hot days. This puts people and vehicles under the trees in potentially dangerous situations. Also, these mature Eucalyptus tree limbs can be as large as 12 inches in diameter. Best Management Practice dictates the Lab implement a proactive risk reduction strategy by removing and replacing the trees of concern so it really is a matter of "tree safety."

Some of the more recent tree damaging incidents have been at Bldg. 111 where a tree too close to the building posed a security issue; a fallen tree limb crushed a Volvo near Bldg. 125; a tree damaged an electrical panel and Bldgs. 214, 216, 314, 391, 451 and 490.

For further questions, contact P.J. Lyra in Plant Engineering, 2-1830.

BRIEFLY

Health Services offers free flu vaccines

Flu vaccination time has rolled around again. Health Services will provide vaccines to LLNL on-site workers at no cost. In keeping with CDC guidelines, Health Services recommends that anyone who wants to lower their chances of getting the flu should consider a shot, especially people 50 years and older and individuals in high-risk categories (i.e., chronic medical conditions, such as cardiovascular or pulmonary disease, diabetes, asthma, renal disease or immunosuppressive disorders; women in their second or third trimester of pregnancy; Lab employees in a foreign travel program).

High-risk employees were first offered the vaccine. After that, and through the first two weeks of November, the vaccine will be offered at "cafeteria clinics" and at afternoon walk-in clinics in Health Services (Bldg. 663). Staffing will be increased to reduce waiting time.

Cafeteria clinics will be held Tuesday, Oct. 14 (Central), Thursday, Oct. 16 (South), and Oct. 22 (West), 11 a.m. to 1 p.m. Walk-in clinics will be held in Health Services Oct. 14-16, Oct. 21-23,

Oct. 28-30, Nov. 4-6, and Nov. 11-13. Hours are 1-4 p.m. for all walk-in clinics.

How to win R&D 100 workshop

The 2004 kickoff workshop on "How to Win an R&D100 Award" is scheduled for Tuesday, Dec. 2, in Bldg. 170, room 1091 at 10 a.m. The presentation will cover entry criteria and the submission process, assistance available through TID/IBIS, and insight from both a previous R&D 100 Awards winner and judge. For more information, contact Lisa Chartrand, 2-2297.

Power outage scheduled

A power outage affecting the 400 to 600 blocks of buildings and trailers has been scheduled from 7 a.m. Saturday, Oct. 11, to 3 p.m. Sunday, Oct. 12. This power outage is required to support the Electrical Distribution Maintenance Program, the installation of SS 413-1 & 413-2 and the removal of SS-401. Buildings, trailers and transformer banks affected:

Buildings: 404, 405*, 406, 411, 412*, 415, 416, 418, 419*, 501, 509, 510, 511*, 512, 513, 513A**, 514, 514A**, 515, 516, 517*, 517A, 518A, 519*, 519A, 520, 522, 523, 525, 611*, 612, 612A, 614, 615, 616, 619, 621, 622*, 623, 624, 625, 639

Trailers: 4104, 4107, 4128, 4161, 4177, 4180, 4181, 4182, 4184, 5104, 5105, 5125, 5198, 5207, 5225, 5226, 6127, 6178, 6179, 6197, 6197B, 6198, 6199, 6199A, 6199B, 6203, 6205, 6297, 6302, 6325

Transformers: 113, 117, 130, 131, 170, 260, 364, 366, 381, 490, 643, 757, 784, 925, 1177, 1182, 1545, 1624, 1647, 1793

Air conditioning, heating and elevators will also be affected. For more information, contact Mark Cardoza, 3-0490.

SEGRF poster session date change

Laboratory scientists, researchers, post-docs and student employees are cordially invited to attend the fourth annual poster presentation by participants in the SEGRF (Student Employee Graduate Research Fellowship) Program. It will be held at the South Cafeteria on Thursday, Oct. 23, from 3 to 5:30 p.m. Note the date change from the previous announcement. For information, call the University Relations Program office, 3-9225, or 2-0394.

A perspective on diversity

Simón Salinas, assemblyman representing the Salinas area, discussed "Diversity" in a presentation sponsored by the Amigos Unidos Networking Group in honor of Hispanic Heritage Month.

Salinas recalled his migrant family upbringing and how it influenced his perspective on the role of diversity in politics. "You're dealing with perceptions," he said, noting the proliferation of diversity groups or caucuses within the legislature representing gay/lesbian, Asian and African American interests. "We ought to welcome it."

From the point of view of an assemblyman, diversity is in essence the "ability to see the strengths that every individual in the California State Assembly brings," Salinas said.

Former Lab engineer and aspiring astronaut José M. Hernandez will discuss "An Engineer's Experience at NASA" at noon Thursday, Oct. 16, in the Bldg. 543 auditorium. Hernandez is current branch chief for the Materials and Processes Branch at NASA's Johnson Space Center in Houston.

At noon Tuesday, Oct. 14, Amigos Unidos will hold a "Recuerdos de la Familia" — a family story and history-sharing event — in the Bldg. 543 auditorium.



JACQUELINE MCBRIDE/NEWSLINE



AUTOMOBILES

2002 Pontiac Firebird, Pewter Metallic, Black Leather Interior, T Top, CD Premium Sound, Power Seat, Premium Wheels, 20,000 miles, Excellent, \$17,500 (925) 469-0803

1969 - Mustang, 6 Cyl, Automatic, \$2200 obo. 925-449-7651

1990 - Honda Civic. Great cond. all new parts. Moving and Must sell. 3000 OBO. 510-656-0522

2000 - Toyota Corolla, 28K mi., 5 spd, CD, AC, excellent condition \$8000. 925-373-9122

2000 - Sp Ed Mazda Miata MX5 conv w/cover, mahogany w/beige leather int, 6 spd man trans, PS, PL, PW, AC, cruise, AM/FM/CD, only 6,900 mi, exc cond, \$16,000 209-814-4757

1986 - Jeep Laredo, 127,000 mi., rebuilt engine with 27,000 mi., 6 cyl., A/C, good cond., \$1800 or B.O. call night 209-957-4639, 925-706-8179

2000 - Honda Accord V6 fully loaded with extended warranty. New breaks, tires and battery. Excellent condition \$16,500 OBO. 925-249-9186

1989 - Honda Prelude Si, 5 speed manual, red, 193K miles, new clutch, newer tires, stereo w/CD, good condition. \$1500 925-449-2692

1965 - Karmen Gia, Great for parts. \$500 obo, will deliver. 925-550-3809

1991 - 15-inch steel wheel and P195/60R15 tire to fit 1991 Honda Accord EX or other Hondas with 4 lug bolts. Good spare tire. \$50 925-447-0678

1998 - Honda Odyssey EX, 97k miles, good condition, A/T, sun roof, runs good, \$9000. 408-313-2599

2003 - Jetta GL- Manual trans., white w/ blk cloth interior, cd/cass/am/fm, power windows, entry, anti-theft alarm, 209-545-6920

1988 - Honda Accord LXi (1988). 5 speed with cruise, new timing belt, clutch, hoses, belts, recent brakes. Clean, no leaks. 138,000 mi. \$2,250 obo 925-516-2446

1999 - 540i Sport BMW under warranty low miles gps system 12 spkr cd changer cassette stereo black/black 8 air bags total 36k 209-640-0590

1999 - Volvo, S-70 model, green/tan, sharp car, 36-K miles, warranty until 06/06 or 70-K miles, asking \$13500. 925-447-5633

2001 - Mercury Sable, Leather, 6 CD/AM/FM/Cassette, sunroof, A/C, ABS, all power. 22,000 miles, \$14,000 209-833-1219

1995 - Saturn SL2, 4 door sedan, 5 speed, AC, moonroof, dark blue, good condition, \$3000 925-699-3831

1996 - Honda Prelude, Excellent Condition, 104K Miles, Stick shift, Moon Roof, \$8800. 925-484-2217

2000 - VW Jetta, Automatic, Black on Black, Loaded, Sun roof, Roof Ski racks, new brakes, excellent condition, 78k miles, \$10,995. 925-371-6485

AUTOMOBILE ACCESSORIES

Kenwood Car CD-AM/FM (KDC-MP-8017); Like New/Rarely Used; Plays CDs & MP3; Removeable Face Plate \$175.00. Call after 4pm 925-447-6821

131 TIRES. 2 Dunlop 155/80/B13 Nearly new tread only \$25 both. Livermore 925-447-7070

US Acoustics amplifiers (75, 150, 250 watts), California Profile crossover, Kicker SS200 speaker box, and various cables. \$450 209-836-9082

BICYCLES

Litespeed Ultimate titanium road bike 56 cm. Equipped w/ Dura Ace, speedplay pedals, Mavic Open Pro Rims, asking \$2000. 209-239-4457

BOATS

Achilles inflatable with 30HP Evinrude outboard, brand new custom trailer, too many extras to list, excellent condition \$3,550 OBO 209-599-1059

CAMERAS

FS: Nikon N70 Autofocus Body, Tokina 28-70 ATX Pro Lens, SB28 Flash. \$500/offer 925-337-0423

Lights & Motion Underwater Video System - Lights, microphone, filters, hard case and Nikon Hi-8 camera. Like new - to many extras to list. \$600 OBO. 209-599-1059

ELECTRONIC EQUIPMENT

Hi Fi Speaker: AR Subwoofer with crossover for satellite speakers, attractive walnut enclosure, \$75 Great bass. 925-361-7111

HP Pavilion PC 550MHz PIII, 20GB HD, DVD, CDRW, NIC, 15inch HP CRT with speakers;

CLASSIFIED ADS

email, wordprocessing, movies, music; \$125 OBO. 925-484-3467

Microsoft wireless base station - for wireless home networking. Includes manual, CD, etc. \$50. 925-485-1988

GIVEAWAY

Free Trailer: full-size Chevy pick-up bed trailer; call Jim. 510-886-3322

Metal motorcycle attachment to put on truck bumper. 925-447-7768

Color TV - 27-inch, cabinet-enclosed, tube having color problems, still good for video games. You haul. 925-485-1988

HOUSEHOLD

Baby Crib- Child Craft, Honey Oak finish, Like new, matching changing table. Both for \$125.00. Call for more info. 209-545-9430

Solid wood framed windows from 120 year old Victorian. Original glass with wavy appearance, air bubbles, and inclusions. Sizes from 28x30. \$25-\$45 925-447-6670

Kitchen Remodel-appliances for sale: refrigerator \$25; dishwasher \$20; above stove microwave/hood \$20; gas stove \$45; & more. 209-836-9252

Moving sale. Mattress, dresser + nightstands, coffee tables, bthrm cabinet. Call for prices. 510-656-0522

Bruener sofa bed and love seat matched set, sofa bed opens up to queen-size bed, very attractive and in excellent condition. \$600 for both. 925-361-7111

Dryer, electric, large capacity, old but runs good. \$20. Oven, wall, Jen-naire, 30 inches wide, old but hardly used. Free 925-455-1355

18 Cubic foot Continental commercial freezer. Vacuum closing, too big for us. Upright. Works great. \$100.00 925-455-4849

Two oak base cabinets, 2-drwr & 2-drs each. L-shaped white laminate countertop included. Really nice. \$650/BO, Call after 10 am. 209-836-1455

Craftsman Shop Vacuum, 2 hp, 8 gallon, includes hose and attachments, \$40 925-484-4099

Sears/Kenmore electric clothes dryer, almond, 27 inches wide. Works great. \$50 Kim 209-892-2118

Queen Anne style dining room table. Excellent condition. Sits 8. 6 chairs nds work. \$300 or OBO 209-832-2281

Crib/mattress/pad, changing table and dresser. Natural solid maple. Excellent cond., not a scratch. \$600 925-516-8339

Washer and Electric Dryer. Dryer is 2 months old, washer is about 4 years old. Both work great. \$200 for both. 209-833-3785

White Plantation Shutters for sale, fits 106x80 inch slider, good condition. Located in Alamo, you haul. \$300. 925-314-9478

Victorian style arm chair, orange and gold satin stripe. \$20 925-455-8609

Sofa-gray and pastel \$50. Pair of end tables, light oak color with cupboards \$25. TV/Stereo cabinet-black with CD/movie storage \$20. Livermore 925-321-1870

Couch, need to go right away. \$50.00 OBO 925-422-9014 925-449-3909

Unique dining room light, 10.00. American Tourister luggage set of 3, 45.00. 510-537-7222

Little Tikes Playhouse - \$80. Simmons Maple Crib with mattress - excellent condition - \$150. 925-833-2560

Two student/computer desks for sale. One has keyboard base. Excellent condition. \$75.00 each. If interested, please call 925-443-3219

Lawn Mower/Mulcher -- Brand New Condition, used maybe three or four times. Craftsman, rear-bagger, 6.5 HP, 4-cyl. \$180 925-443-7884

SAFFRON-gourmet spice for easy everyday use. Spanish Mancha Superior threads 3-0.5 gram jars \$10. 510-614-8065

Gas range, almond, 36in, self cleaning oven, works great! \$100.00 OBO 925-337-1187

Refrigerator, small room size. Good for college student. 22 in. w x 34 in. h x 24 in. dp. Sold by Wards. Good condition. \$50.00. 925-961-1658

Nice tall bookcases 72 high 32 wide 3 shelves on top, cupboard doors on bottom with 2 shelves, dark wood \$80 each 925-449-1823

Freezer. Good condition. Works great. \$150 925-240-7053

Solid Oak rolltop desk multiple storage drawers, pigeon holes, tambour door lock. \$500 - pd \$1000. 209-612-9943

Twin mattress set with adjustable metal frame, excellent condition, \$60, can deliver 510-517-6689

Oak Coffee Table & Cherry Wood Coffee Table: Only \$25 each! Great Condition.

925-240-0678

China Cab 6ft by 7ft High make offer, 2 recliners \$30 both, Ent. Center \$30, Wht. Wed dress, Dept 54 Houses all OBO 925-449-8429

Corner computer desk. Black hardware with putty colored surfaces. Shelves for speakers, keyboard, printer, and supplies. \$70. 209-836-9082

Corner Computer Desk - Ergonomic - Satin cherry laminate - \$200; additional matching file cabinets and more. 925-243-1033

LOST & FOUND

Lost: green stone necklace, on Sept 29 or 30, on black waxed string, stone in shape of a twist. 510-351-0969

LOST - Womans reading glasses in grey GUESS case, between T3725 & B482 on 9/30. 925-899-4402

Glasses, bifocal, found 9/29 in parking Lot D-3 (next to T4298) call 3-2304 or 925-447-7070

MISCELLANEOUS

DISNEY ON ICE - Oak Arena, Sat Oct 25, 2003. Sec 101 Row 13 (up to 5 tickets) @ \$20 each obo. (925) 580-9694

Sears heavyduty sander (\$40), scroll saw (\$40), induction tune-up dwell meter, induction timing light (\$50 both) 925-361-7111

San Jose Sharks sect 215 Oct 21 vs Anaheim 7:30 or Oct 23 vs Chicago 7:30 2 seats each game @ face value \$40 ea. 925-516-7099

TV table, black with wheels, 18in high x 27in wide x 20in deep, \$5; Wicker storage basket, 20in cube, \$5. 925-243-0928

Gargage door hinges and springs like new. \$30.00 925-455-4849

Ping Pong Table \$25.00 925-455-4849

Roll top desk. Solid Oak, Winners Only. Excellent cond. Paid \$1200 sell for \$600 925-516-8339

sporting equipment for sale too much to list! Scuba Regulators, Buoyancy compensators, full face masks, navigation boards, golf clubs, etc. 209-599-1059

Brass floor lamp with five globes on over-hanging arms. \$25 925-455-8609

Campbell Hausfeld airless sprayer, .44 gpm 3/4 hp. Includes 50 ft of high pressure hose, 3ft handheld spray shield, and storage solution. \$325 925-455-8609

Microwave stand \$10. Panasonic Microwave/Convection oven \$40. Livermore. 925-321-1870

White Amana Refrig. One year old, Energy Star, runs perfect. Must sell. 650.00 new. Asking just 400.00 510-537-7222

Arrow Wood Stove Insert with some wood & coal. \$250.00. Call after 4pm 925-447-6821

International tractor 300 series-bucket, brush hog mower, good tires. \$4150.00 or best offer 925-454-1749

Church Pew, Solid Oak, 7' long, heavy. Beautiful Wood. \$50 925-447-8557

Garage Sale, 612 Joyce st, Liv, 830 to 4pm, sat/sun, household items 925-449-8429

3000+ Comic books 25 cents on dollar, tons of baseball cards, make offer, Kids 3 in 1 game table pingpong/airhockey/fuseball, new, 100 all obo 925-449-8429

49er Tickets vs Detroit Lions (Mariucci Return) Sun Oct. 5th @ 1:15pm UR SEC 11 Face Value 209-499-3793

MOTORCYCLES

1985 - Kawasaki GPZ550 Excellent condition, low miles, runs great! \$1,500. 209-599-1059

Triumph 2-piece leathers. 360 degree zipper to connect jacket to pants. Pants are black size 40 waist. Jacket is Black/Silver and size L/XL. \$200 209-406-5253

1987 - HD FLHTC Classic 39k miles runs great Full dress Second owner bought new motorcycle wife wont let me keep two \$10,000 obo. 925-513-9332

1997 - YZ 250. Lots new. Well maintained. \$3,000 or best offer. 925-240-7053

1982 - Honda 3 wheel ATV, 185-S. Elect. start. Runs good. 4 wheel trailer included. \$1600.00 OBO. 925-447-6218

MUSIC INSTRUMENTS

Suzuki violin, 1/4 size, Wolf violin headrest (1/2 size), Violin Strings, all like new. Make offer 925-361-7111

Organ, Kendal (sp?) older 40s style, with large external speaker, 2x2x4'. Organ with foot pedals. Excellent Cond. Heavy. You haul. Make offer. 925-447-8557

Roland VS-890 digital recorder. Read

about it online. Excellent condition -- \$500. 209-836-9082

PETS & SUPPLIES

Igloo Dog House - Very good condition, can be used for medium to large dog. \$50.00 925-449-8035

Puppies, 1 year, Corgi/Bassengi mix. Liter mates, female/male. Very loving, good with kids, need to stay together. Spay/neu/shots. Need a good home. 925-443-6052

Looking to start a local group for owners of House Rabbits to exchange info, hay, & supplies. 925-447-2130

Bird Cages 3 sizes to choose from Parakeets to Macaws \$50-\$350 925-454-1969

RECREATION EQUIPMENT

Wetsuit, Billabong 4/3 mm, large tall, full length, zipperless, black, \$40. 925-803-5804

Camper, cab over camper for full size pickup, old but water tight, Free. 925-455-1355

O'Brien wood waterski 64 and case. \$25.00 925-455-4849

Hexcel snow skis & poles 160. \$5 Head snow skis and poles 185. \$5 Olin Mark VI 170 \$5 925-455-4849

Portable basketball hoop with clear plastic backboard, adjustable height, \$20 925-484-4099

QR Wetsuit size med/sm, used but in great shape. \$50 209-612-3967

Mobby Pro Drysuit used only for a class - Like New - \$500 OBO. 209-599-1059

Treadmill Sears Lifestyler Expanxe 600 \$200.00 209-599-8422

Pool Table for sale. \$200 or best offer. 925-240-7053

American Camper Tent (sleeps six) and a small Coleman two burner propane stove. \$100. 209-836-9082

RIDESHARING

Express your commute, call 2-RIDE for more information or visit [http://www-r.lnl.gov/tsmp](http://www.r.lnl.gov/tsmp).

Concord/Pleasant Hill/Walnut Creek - Seats available on luxury van. Arrive at lab 7:45AM, depart 4:30PM. 925-947-6969, ext. 2-4206

PATTERSON - Vanpool has seats available for 7:30-4:00 shift. Guaranteed Ride Home & Pre-Tax Transportation Programs available. Fare based on # of riders. 209-892-2118, ext. 2-9502

Orinda - Carpool from Lamorinda seeks 4th rider/driver. Carpool meets near St. Stephens and Hghwy 24. Lab hours 8am to 4:45pm. 925-253-0498, ext. 2-9823

Lafayette - LaMOrinda Vanpool (also Walnut Creek stop at Rudgegar Rd): reclining seats, reading lights, 7:45-4:45, \$105/mo (pretax reduction available) 925-943-6701, ext. 2-3005

Manteca - 9/80s schedule. Rider/Driver needed. Hours 7:00 to 5:00. Many options available. Call to discuss. 209-825-0326, ext. 3-0631

Gall/Lodi/Stockton - Looking to form a 2-4 person carpool with others on the 9/80 AWS. Working hours 7 to 4:45pm. If interested, please call. 209-334-1006, ext. 4-4175

SHARED HOUSING

Livermore - furnished room for rent. Clean/quiet. \$550.00/month. Share utilities 1/3. Mature adult. No pets/no smoking. Deposit required. 925-449-1128

Livermore - Room for Rent \$550, plus 1/3 utilities, 1 mile from LNLN. No Smoking /Pets 925-989-6138

Livermore area - Moroccan scientist here on a 3-month fellowship (Nov10-Feb9). Does anyone have furnished housing available for him to rent during his stay? 510-537-4777

Livermore - Room for rent, \$550 incl. util., kit./laundry/pool privileges. Near golf course. Must love dogs. 925-243-9316

San Ramon - One or two rooms for rent in a 4-bedroom home in a quiet court. No smoking, will consider pets. \$520 each plus share of utilities. 925-518-4939

Livermore - Seeking housemate, near lab, spacious living area, cable every room, high speed internet, washer/dryer, spa, housekeeper. \$500 + 1/3 util. Dan 925-963-7668

TRACY, - a new home, 3 rooms available from \$375 to 550, full privilege, plus util & deposit. Call 209-832-4335

SERVICES

Looking for a great massage therapist? Are you suffering from muscle pain? Gift cer-

tificates available. In home service or at my clinic. 510-366-9767

Raingutter Specialists gutters cleaned or replaced, Custom work, 25 years in the business. Service to most areas in Northern CA. 925-606-1251

Expert Carpentry. Specialize in decks, fences, cabinets or special projects in Tri-Valley and Bay Area, east of the Altamont. 925-556-9424

Are you a SCRAPPER? Interested in learning how to scrapbook? Or just interested in buying Scrapbook products? Please call after 5:30pm. 925-640-9742

ClutterLess (CL) Self Help Group. Is clutter stressing you out? Mondays 7 - 8:30 PM. Just come Coffee Beans 401 Main Street, Pleasanton or call 925-443-0766

TRUCKS & TRAILERS

1974 - Smog exempt Ford Long Bed Pickup. A work truck, V-8, twin tanks, hitches. \$1500 209-832-9222

1981 - GMC pickup, camper special, 454, 90K original miles, good condition, trailer towing pkg. Asking \$3,000/OBO 925-447-4161

1980 - 35 foot Skamper trailer, located in a membership campground. 4000 Onan generator, plus a 75 wt. solarpanel color TV, a move in setup \$28,500 OBO 925-447-7768

1998 - Dodge SLT Club Cab, Loaded, 5.2L V8, Premium Sound AM/FM CD, ABS, Dual Air Bags, matching camper shell, 114K miles. \$9,000.00 925-754-5366

2002 - Chevy Silverado 1500 ext cab (4 dr) short bed, V8 auto, 2 wheel drive, 25K miles, tonneau cover, pwr wind/doors, CD excellent cond \$19,999 925-443-2114

2001 - Toyota Tacoma Pickup, 46k, PS, AC, STDR Cab. \$8,000, Great Cond 925-443-3358

1978 - 1 ton Chevy flat bed, new 350 motor, rebuilt carb, 4spd with pto set up for dump bed. \$3500.00 or best offer 925-454-1749

1988 - Ford F-250 HD 4x4, 7.5L V8, 5 speed manual. 126,000 miles. runs good. \$3,000 OBO. 925-373-9638

1983 - Starcraft 17 ft. Tent Trailer, Sleeps 6, Stove, Sink, AC/DC Power converter with batteries,

AROUND THE LAB



DYNES

Continued from page 1

Dynes also reported that the university is close to naming a new vice president for Laboratory Management to replace John McTague, adding that the caliber of the candidates is "stunning."

In addition, he said UC is assembling an oversight board made up of "very distinguished people" from the university and the nation.

As president of the university, Dynes said the most immediate issue he faces is the budget. UC has been asked to prepare for a 20 percent budget cut. "A 20 percent budget cut is a devastating budget cut," he said. "It's the equivalent of two to three campuses. It's unthinkable at this point.

"I'm just not willing to accept a 20 percent budget cut," said Dynes, who described himself as an optimist. "My goal is to convince the state what a very good investment the University of California is. The money that is invested in the University of California will be paid back many times over in the years to come."

Dynes, a physicist, also discussed the impact on the university of declining support for basic science in U.S. private industry — "a serious problem in the U.S. and universities really have to take up the baton in leading the research that will result in the competitiveness of the U.S."

"The good part of it is that universities will take on that role and government has recognized that," he said. "The bad part is that cre-



UC employees are invited to join Robert Dynes and members of the UC community for a series of informal Web chats about the future of the university.

Dynes offers Web chat series

UC President Robert Dynes is holding a series of Web chats with university groups, including faculty and staff, students and alumni. Instructions for participating and transcripts of Web chats will be available at the Web address below. Upcoming sessions:

- Faculty and staff, 10-11 a.m., Tuesday, Oct. 14
- Student issues, 4-5 p.m., Wednesday, Oct. 15

<http://www.universityofcalifornia.edu/new-president/preschat.html>

ates difficulties in technology transfer and understanding of how what is discovered and invented inside the university gets transmitted to the public good."

Dynes said there are difficulties in the questions of who owns the intellectual property and how that is transmitted both in high technology and the life sciences. "I look forward to the university addressing and understanding the issues of technology transfer," he said. "I think UC is the right institution to address these questions."

Asked about the rapid evolution of new disciplines, Dynes said collaborations across disciplines need to be encouraged.

"The nature of creativity occurs at the seams of traditional disciplines," he said. "The most creative things occur when you have someone from another discipline who brings a different language and different set of questions to you.

"The collaborations that occur across disciplines are marvelous. I think this is the future of education in universities; taking traditional disciplines as they exist and bringing them together across the campus or across campuses."

Dynes decided against a traditional inauguration ceremony in favor of an "inaugural tour" of UC campuses where he will make himself available to faculty, staff and students, even inviting people to join him on his morning run.

Acknowledging he was taking the reigns of the university at a time of "big challenges," Dynes was upbeat and energetic. "My adrenaline is pumping, my mind is churning like mad and I want to get on with it."

HATCHETT

Continued from page 1

ments at Osaka have validated key aspects of this approach. Hatchett did computational work that motivated these experiments and has been intimately involved in the experimental planning and analysis.

Hatchett's earlier work has also had a major

impact. He did fundamental analytical work on indirect drive ablation physics, with significant impact on the understanding of ablation pressure and rates. Initially classified, this work has been discussed in more recent open literature including John Lindl's book "Inertial Confinement Fusion." Hatchett's work on this topic will also be incorporated into a textbook by Meyer-ter-Vehn.

Hatchett played a central role in a wide range of Nova experiments, particularly in the

analysis of neutron spectra to infer mix. His work with Mike Cable on high density implosions in the early 1990s was one of the most important contributions from the Nova program. Throughout his career, Hatchett has been highly sought after as a collaborator, particularly by experimentalists. Hatchett is now playing a central role in identifying opportunities and requirements for implosion diagnostics on the National Ignition Facility.

SACK

Continued from page 1

and continual mentoring of LLNL scientists over many generations will continue to influence national security well into the future."

Associate director for Defense and Nuclear Technology Bruce Goodwin added: "I am extremely proud and pleased that the nation has recognized Seymour Sack's enormous contribution to the defense of our nation and the peace of the world. He is more responsible than any other individual for the fundamental design and intrinsic safety of the modern US deterrent. He also inspired and trained many young scientists by selflessly sharing his energy and intellectual talent. I was fortunate enough to be one of those lucky young scientists, and for this I am grateful. It is most appropriate that the nation express its gratitude by giving him this great honor."

B Division leader Charles McMillan, who manages those who will follow in Sack's footsteps added: "Seymour's most enduring legacy resides within today's nuclear design community. He continues to convey to those who come after him a deep commitment to simple and efficient ideas. I see his high standard for creativity and responsibility to the nation in those who have learned their craft under his persistent mentoring."

One of those following in Sack's footsteps is Kris Winer, who said of his mentor: "One might think that such a giant might frighten off those clumsily groping

to follow in his footsteps. Yet he is generous with his time, kind in his reproaches, and a gentle nagger who will suffer us fools, as long as he perceives some hope in our redemption."

Sack, 74, received his B.S., M.S. and Ph.D. degrees in physics from Yale University. He retired from the Laboratory in 1990, but continues as a Laboratory associate. During his 35-years at Livermore, he emerged as one of the foremost U.S. nuclear weapons designers. His weapon design programs introduced insensitive high explosives, fire-resistant plutonium pits and other state-of-the-art nuclear safety elements, while his design concepts are found in all U.S. stockpile weapons — not just those from Livermore.

The Fermi Award is a presidential award. It recognizes scientists of international stature for lifetimes of exceptional achievement in the development, use or production of energy — broadly defined to include nuclear, atomic, molecular, and particle interactions and effects. Past recipients include physicists John von Neumann, Ernest O. Lawrence, Hans Bethe, Edward Teller and Sheldon Datz.

DOE administers the Fermi Award for the White House. Abraham will present the awards on Oct. 22 at a public conference in Washington, D.C. The conference, Nuclear Energy and Science for the 21st Century: Atoms for Peace Plus Fifty, marks the 50th anniversary of the speech by President Dwight Eisenhower to the United Nations General Assembly on the peaceful uses of the atom.

"The contributions these distinguished scientists have made to understanding the world around us and

to our national security are immense," Abraham said. "Their lifetime of innovative research follows in the tradition of Enrico Fermi, the great scientist we commemorate with this award."

One of the nation's oldest and most prestigious science and technology awards, the Fermi Award dates back to 1956 and honors physicists Enrico Fermi, who at the University of Chicago in December 1942, led scientists in achieving the first self-sustained, controlled nuclear reaction.

The other winners of the Enrico Fermi Award were John Bahcall and Raymond Davis, Jr. The citation for the award to Bahcall and Davis will read: "For their innovative research in astrophysics leading to a revolution in understanding the properties of the elusive neutrino, the lightest known particle with mass."

Bahcall and Davis are the scientists most responsible for the field of solar neutrino physics and neutrino astronomy. Bahcall, a theorist, and Davis, an experimentalist, helped determine that neutrinos have mass and that electron neutrinos oscillate into many "flavors" on their way from the sun to the earth.

Since 1971, Bahcall has been professor of Natural Sciences at the Institute for Advanced Study and visiting lecturer with the rank of professor at Princeton University. Davis, 88, was awarded the Nobel Prize in physics in 2002.

Details on the conference and online registration are posted at www.ifpaenergyconference.com. Information about the Fermi Award, prior winners and their contributions, is available at <http://www.sc.doe.gov/sc-5/fermi>.

Recalling history at Las Vegas Atomic Testing Museum

By Anne M. Stark

NEWSLINE STAFF WRITER

When Nikita Khrushchev was premier of the Soviet Union from 1953-64, he had two goals to make life better for the Soviet people: make sure they had enough food and shelter and defend the country from possible U.S. attack.

That's the way his son Sergei Khrushchev saw it some 50 years ago. Khrushchev, now a senior fellow in the global security program at Brown University, recalled his father's rise to power and the Cold War in an interview at the opening of the Atomic Testing Museum in Las Vegas last weekend.

"We felt the United States could destroy the Soviet Union," he said. "We did everything to prevent that from happening. But my father had a different vision: Is it possible to prevent this from happening?"

However, when Dwight Eisenhower was elected president, the Soviets viewed it as a "clear signal that the U.S. was going to war because why else would you elect a general,"



DAVID C. STARK/SPECIAL TO NEWSLINE

Sergei Khrushchev, son of Nikita Khrushchev, recalled his father's rise to power in an interview at the opening of the Atomic Testing Museum in Las Vegas last weekend.

Khrushchev said.

Though many Americans have visions of Nikita

Khrushchev slamming his shoe on a table at the United Nations and being quoted in newspapers as saying "We will destroy you," his son painted a different picture of the times.

"It was all part of the propaganda," Sergei Khrushchev said. "For Americans, my father was the boogey man. He thought that war would be mutually destructive. During the Cold War, he never thought we had to kill or destroy the United States. He was very pragmatic."

Through the Cold War, Nikita Khrushchev was mainly known for his involvement in a series of predicaments including shooting down Francis Gary Powers U-2 spy plane, building the Berlin Wall and the Cuban missile crisis.

But his son recalls one particular story: the time his family visited the United States and they wanted to go to Disneyland. However, the Mayor of Los Angeles at the time recommended that they might come across some people acting hostile toward them. "So we didn't wind up going to Disneyland and I've never been there since," he said.

MUSEUM

Continued from page 1

"The Nevada Test Site today plays a critical role in the experiments that support stewardship, but the past contributions of the test site were a critical part of winning the Cold War," said Glenn Mara, the Lab's deputy director of Operations, who was associated with NTS for 15 years, most recently as Nevada program leader. "That history is now recognized in the recent dedication of the NTS museum. So whether one looks to the past or to the future, the longstanding partnership of the Laboratory with the NTS is an essential element of our national security."

The Nevada Test Site Historical Foundation (NTSHF) was founded in 1998 to preserve the NTS legacy. In 2001, the Smithsonian Institution granted affiliate status to the historical foundation, which will allow the new museum exhibit center to receive collections on long-term loan, to exhibit traveling shows, and to participate in a variety of Smithsonian programs. The historical foundation's mission is to preserve and foster public accessibility to the history associated with NTS and the nation's nuclear weapons testing program.

Walking up a ramp into one of the exhibit spaces, a visitor will be on a journey to the NTS during the 1950s, the time of atmospheric testing. During this era, there was a place called News Nob. "Newsmen and dignitaries would go there to watch the testing, one of whom was Walter Cronkite, who watched the test from News Nob" said Troy Wade, president of the Nevada Test Site Historical Foundation, during a walk-through of the museum.

The museum will include a simulated News Knob in the form of the "Ground Zero Theater," with a large-screen wall monitor displaying films explaining the story of NTS and benches in front. At the end of the short film, the screen will go blue, lights flash, hot air pumps in and the benches shake, similar to the feeling of what an above-ground nuclear test would have felt like, Wade said.

"This is the closest you get to Disneyland," said Wade, who worked at the test site in various managerial positions for more than 30 years during the height of above and underground testing. "We're trying to have a heavily multimedia museum so you don't have people just reading a bunch of text."

While the site's history will be detailed on poster boards, about 35 percent of the exhibits will be interactive, including multimedia displays and hands-on activities, according to Michael Barnes of the museum's design firm, Andre & Knowlton Associates of Canada.

From the atmospheric testing of the 1950s to the underground testing of the 1960s and 1970s, visitors will walk through a giant circular piece of steel rein-



DAVID C. STARK/SPECIAL TO NEWSLINE

Troy Wade, president of the Nevada Test Site Historical Foundation, describes a test canister that sits in the Atomic Testing Museum.

forcement that was actually used in one of the underground tunnels at the NTS.

Also in this area, visitors will see a one-fifth scale of a nuclear test canister, a replica of what had been used at the test site, that sits about 25 feet high. The canister is an actual piece of test equipment on loan from Los Alamos. The area includes a model of the test site's still existent control room for nuclear testing field activities, "Control Point One."

This exhibit space was dedicated to Wade on Friday evening as the Troy Wade Gallery. "This is now my gallery," said Wade as he pointed to a poster of a room where the test panel sat during underground tests. "I sat in one of these chairs many times. I was the test manager for 30-some nuclear tests."

Wade said Livermore played a very large role in the underground testing of the 1960s. "One year, we did close to 50 tests," he said. "This was the middle of the Cold War. It was not a friendly time."

The museum goes on to display a grain silo that actually sat at NTS. Posters explain how site employees, as part of an Environmental Protection Agency program, grew crops and raised cattle and deliberately irradiated the crops to measure how the radiation goes through the food chain and eventually how fallout would get into the food stream, Wade said.

Further on, the museum posters and artifacts will show how the test site existed before it became the NTS, as well as its current and future uses.

"Five years ago, this museum was just a dream," said John Gilpin, who retired this year after serving as

the Laboratory's contract management director and worked at the test site for 15 years, from 1969-1984.

"Veterans of NTS had a vision to protect the history, to protect the records and make sure they weren't lost. There's a very unique history here that we want to preserve. There's such a legacy to the test site. The role it played in the Cold War was a very dynamic part of history."

And telling that story to the public is exactly what foundation members, NTS veterans and museum director Arthur Wolf want to do.

"This is a way to bring that history to the world for the local residents, veterans of the test site and the 35 million visitors who come to Las Vegas every year," Wolf said. "We want them to take away the history of the Cold War and what role NTS played in it. As a public forum, we want something that was secret for so long to be revealed objectively."

Gilpin said he became interested in participating in the museum because he didn't want the role of NTS in the Cold War to be forgotten. "I think anybody realizes when you've got the transition of people and time that things tend to get set aside," he said. "If there's not a dedicated effort to organize it, over the passage of time it just erodes."

To date, nearly \$4 million has been raised for the design, construction and installation of the exhibits. Livermore and Los Alamos donated \$25,000.

The museum sits at 755 East Flamingo Road, Las Vegas. For more information about the museum, go to www.nevadatestsite.com.



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